

Pipeline and Hazardous Materials Safety Administration SENT TO COMPLIANCE REGISTRY
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WARNING LETTER

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

September 12, 2007

Mr. Scott A. Griffith XTO Energy 52260 Wik Road Kenai, AK 99611-9704

CPF 5-2007-7005W

Dear Mr. Griffith:

Between October 25 - 26, 2005, representatives of the Pipeline and Hazardous Materials Safety Administration (PHMSA), pursuant to Chapter 601 of 49 United States Code, inspected your procedures and records for Integrity Management Program in Kenai, Alaska.

As a result of the inspection, it appears that you have committed probable violations of the Pipeline Safety Regulations, Title 49, Code of Federal Regulations. The items inspected and the probable violations are:

- 1. §195.452 Pipeline integrity management in high consequence areas.
 - (f) What are the elements of an integrity management program? An integrity management program begins with the initial framework. An operator must continually change the program to reflect operating experience, conclusions drawn from results of the integrity assessments, and other maintenance and surveillance data, and evaluation of consequences of a failure on the high consequence area. An operator must include, at minimum, each of the following elements in its written integrity management program:
 - (8) A process for review of integrity assessment results and information analysis by a person qualified to evaluate the results and information (see paragraph (h) (2) of this section).
 - (g) What is an information analysis? In periodically evaluating the integrity of each pipeline segment (paragraph (j) of this section), an operator must analyze all available

information about the integrity of the entire pipeline and the consequences of a failure. This information includes:

- (1) Information critical to determining the potential for, and preventing, damage due to excavation, including current and planned damage prevention activities, and development or planned development along the pipeline segment;
- (2) Data gathered through the integrity assessment required under this section;
- (3) Data gathered in conjunction with other inspections, tests, surveillance and patrols required by this Part, including, corrosion control monitoring and cathodic protection surveys; and
- (4) Information about how a failure would affect the high consequence area, such as location of the water intake.

XTO did not provide a formal, documented process, as required by §49 CFR, Part 195.452 (f)(8), to ensure employees who review and evaluate integrity assessment results are qualified to perform this work. There were no qualified personnel lists, job descriptions, task analysis or other means to address education, experience, skills, and etc. as appropriate.

2. §195.452 Pipeline integrity management in high consequence areas.

- (f) What are the elements of an integrity management program? An integrity management program begins with the initial framework. An operator must continually change the program to reflect operating experience, conclusions drawn from results of the integrity assessments, and other maintenance and surveillance data, and evaluation of consequences of a failure on the high consequence area. An operator must include, at minimum, each of the following elements in its written integrity management program:
- (8) A process for review of integrity assessment results and information analysis by a person qualified to evaluate the results and information (see paragraph (h) (2) of this section).
- (g) What is an information analysis? In periodically evaluating the integrity of each pipeline segment (paragraph (j) of this section), an operator must analyze all available information about the integrity of the entire pipeline and the consequences of a failure. This information includes:
- (1) Information critical to determining the potential for, and preventing, damage due to excavation, including current and planned damage prevention activities, and development or planned development along the pipeline segment;
- (2) Data gathered through the integrity assessment required under this section;
- (3) Data gathered in conjunction with other inspections, tests, surveillance and patrols required by this Part, including, corrosion control monitoring and cathodic protection surveys; and
- (4) Information about how a failure would affect the high consequence area, such as location of the water intake.

XTO conducted a preliminary risk screening (Section 4.4.6) by utilizing available pertinent information and has addressed risk categories in evaluating their pipeline segments. However, XTO did not document their implementation process.

- 3. §195.452 Pipeline integrity management in high consequence areas.
 - (e) What are the risk factors for establishing an assessment schedule (for both the baseline and continual integrity assessments)?
 - (1) An operator must establish an integrity assessment schedule that prioritizes pipeline segments for assessment (see paragraphs (d) (1) and (j) (3) of this section). An operator must base the assessment schedule on all risk factors that reflect the risk conditions on the pipeline segment. The factors an operator must consider include, but are not limited to:
 - (i) Results of the previous integrity assessment, defect type and size that the assessment method can detect, and defect growth rate;
 - (ii) Pipe size, material, manufacturing information, coating type and condition, and seam type;
 - (iii) Leak history, repair history and cathodic protection history;
 - (iv) Product transported;
 - (v) Operating stress level;
 - (vi) Existing or projected activities in the area;
 - (vii) Local environmental factors that could affect the pipeline (e.g., corrosivity of soil, subsidence, climatic);
 - (viii) geo-technical hazards; and (ix) Physical support of the segment such as by a cable suspension bridge.
 - (2) Appendix C of this part provides further guidance on risk factors.

XTO's risk model does not reflect the most important risk drivers. The threat table did not include some of your pipeline's highest known risks such as vortex shedding and subsea scouring.

- 4. §195.452 Pipeline integrity management in high consequence areas.
 - (f) What are the elements of an integrity management program? An integrity management program begins with the initial framework. An operator must continually change the program to reflect operating experience, conclusions drawn from results of the integrity assessments, and other maintenance and surveillance data, and evaluation of consequences of a failure on the high consequence area. An operator must include, at minimum, each of the following elements in its written integrity management program:
 - (6) Identification of preventive and mitigative measures to protect the high consequence area (see paragraph (i) of this section);
 - (i) What preventive and mitigative measures must an operator take to protect the high consequence area?
 - (1) General requirements. An operator must take measures to prevent and mitigate the consequences of a pipeline failure that could affect a high consequence area. These measures include conducting a risk analysis of the pipeline segment to identify additional actions to enhance public safety or environmental protection. Such actions may include, but are not limited to, implementing damage prevention best practices, better monitoring of cathodic protection where corrosion is a concern, establishing

shorter inspection intervals, installing EFRDs on the pipeline segment, modifying the systems that monitor pressure and detect leaks, providing additional training to personnel on response procedures, conducting drills with local emergency responders and adopting other management controls.

XTO did not risk rank their threat criteria for use in determining their preventive and mitigative measures.

- 5. §195.452 Pipeline integrity management in high consequence areas.
 - (f) What are the elements of an integrity management program? An integrity management program begins with the initial framework. An operator must continually change the program to reflect operating experience, conclusions drawn from results of the integrity assessments, and other maintenance and surveillance data, and evaluation of consequences of a failure on the high consequence area. An operator must include, at minimum, each of the following elements in its written integrity management program:
 - (7) Methods to measure the program's effectiveness (see paragraph (k) of this section);
 - (k) What methods to measure program effectiveness must be used? An operator's program must include methods to measure whether the program is effective in assessing and evaluating the integrity of each pipeline segment and in protecting the high consequence areas. See Appendix C of this part for guidance on methods that can be used to evaluate a program's effectiveness.

The post-incident root cause analysis was not adequately integrated into the IM program.

- 6. §195.452 Pipeline integrity management in high consequence areas.
 - (e) What are the risk factors for establishing an assessment schedule (for both the baseline and continual integrity assessments)?
 - (1) An operator must establish an integrity assessment schedule that prioritizes pipeline segments for assessment (see paragraphs (d) (1) and (j) (3) of this section). An operator must base the assessment schedule on all risk factors that reflect the risk conditions on the pipeline segment. The factors an operator must consider include, but are not limited to:
 - (i) Results of the previous integrity assessment, defect type and size that the assessment method can detect, and defect growth rate;
 - (ii) Pipe size, material, manufacturing information, coating type and condition, and seam type;
 - (iii) Leak history, repair history and cathodic protection history;
 - (iv) Product transported;
 - (v) Operating stress level;
 - (vi) Existing or projected activities in the area;
 - (vii) Local environmental factors that could affect the pipeline (e.g., corrosivity of soil, subsidence, climatic);

- (viii) Geo-technical hazards; and (ix) Physical support of the segment such as by a cable suspension bridge.
- (2) Appendix C of this part provides further guidance on risk factors.

XTO did not follow your risk model when prioritizing the integrity testing of pipelines A, B, and C.

- 7. §195.452 Pipeline integrity management in high consequence areas.
 - (f) What are the elements of an integrity management program? An integrity management program begins with the initial framework. An operator must continually change the program to reflect operating experience, conclusions drawn from results of the integrity assessments, and other maintenance and surveillance data, and evaluation of consequences of a failure on the high consequence area. An operator must include, at minimum, each of the following elements in its written integrity management program:
 - (7) Methods to measure the program's effectiveness (see paragraph (k) of this section);
 - (k) What methods to measure program effectiveness must be used? An operator's program must include methods to measure whether the program is effective in assessing and evaluating the integrity of each pipeline segment and in protecting the high consequence areas. See Appendix C of this part for guidance on methods that can be used to evaluate a program's effectiveness.

XTO did not adequately document their implementation process. XTO needs to improve their revision control documentation and their process formality. In addition, XTO did not address all the requirements in Appendix C to evaluate a program's effectiveness.

Under 49 United States Code, § 60122, you are subject to a civil penalty not to exceed \$100,000 for each violation for each day the violations persists up to a maximum of \$1,000,000 for any related series of violations. We have reviewed the circumstances and supporting documents involved in this case, and have decided not to conduct additional enforcement action or penalty assessment proceedings at this time. We advise you to correct the item(s) identified in this letter. Be advised that failure to do so will result in XTO being subject to additional enforcement action.

No reply to this letter is required. If you choose to reply, in your correspondence please refer to CPF 5-2007-7005W.

Sincerely.

Chris Hoidal

Director, Western Region

Pipeline and Hazardous Materials Safety Administration

cc: PHP-60 Compliance Registry PHP-500 J. Strawn (#116348)